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Claims:

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1. Use of Factor XIII for the manufacture of a preparation, which is suitable for the stimulation of the perfusion of ischemic tissues.

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2. Use of FXIII for the manufacture of a preparation, which is suitable for the stimulation of the perfusion of ischemic tissues by the proliferation of new blood vessels.

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3. Use of FXIII as claimed in claim 1 or claim 2, wherein the FXIII is activated in vitro or in vivo.

4. Use of Factor XIII for the manufacture of an injectible preparation as claimed in claim 1, 2 or 3.

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5. Use of Factor XIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4 which is suitable for the treatment of a myocardial infarction.

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6. Use of Factor XIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4, which is suitable for the treatment of an ischemic stroke or transient ischemic attack.

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7. Use of FXIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4, which is suitable for treatment of vascular or veno-occlusive diseases or obstructions of the microcirculation.

- 5 8. Use of FXIII for the manufacture of a preparation according to claims 1, 2 or 3
 which is for topical application.